

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/10721

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 A61F13/20

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 6 310 269 B1 (SIMON STEFAN ET AL) 30 October 2001 (2001-10-30) cited in the application claims 1,3,5,6; figures 1-10 column 1, line 14 - line 35 column 1, line 65 -column 2, line 3 column 5, line 1 - line 18 column 6, line 10 - line 54 ----- -/--</p>	1-64

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

\* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

29 January 2004

Date of mailing of the international search report

13/02/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Settele, U

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/10721

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>US 5 832 576 A (LEUTWYLER ROBERT ET AL) 10 November 1998 (1998-11-10) cited in the application claim 1; figures 1-18 column 1, line 13 - line 33 column 1, line 48 - line 51 column 2, line 21 - column 3, line 30 column 5, line 14 - line 60 column 6, line 3 - line 11 column 6, line 55 - line 64 column 7, line 5 - line 37</p>	1-64
A	<p>US 2 798 260 A (CARL HAHN ET AL) 9 July 1957 (1957-07-09) cited in the application figures 4-7 column 1, line 15 - line 55 column 3, line 1 - line 15</p>	1-64
A	<p>US 3 422 496 A (MESSING BERND ET AL) 21 January 1969 (1969-01-21) cited in the application figures 1-3 column 1, line 15 - line 51 column 2, line 1 - line 3 column 3, line 1 - line 16 column 3, line 40 - line 44</p>	1-64
A	<p>EP 0 403 636 B (MCNEIL PPC INC) 27 December 1990 (1990-12-27) cited in the application the whole document</p>	1-64
A	<p>WO 00 53141 A (CADMAN MALCOLM JOSEPH ; SMITH &amp; NEPHEW (GB)) 14 September 2000 (2000-09-14) page 1, line 3 - line 11 page 2, line 11 - line 20 page 4, line 7 - line 9 page 5, line 6 - line 10 page 9, line 18 - line 20 page 10, line 1 - line 14 page 11, line 1 - line 4 page 13, line 1 - line 7</p>	1-64
A	<p>US 5 592 725 A (BRINKER ALFRED) 14 January 1997 (1997-01-14) claims 1-3; figures 1-6 column 1, line 6 - line 64 column 2, line 4 - line 52 column 2, line 66 - column 3, line 2 column 3, line 22 - line 27 column 3, line 59 - line 67</p>	1-64
	-/-	

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/10721

## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 283 952 B1 (TARR WARREN ET AL) 4 September 2001 (2001-09-04) figures 1,2 column 1, line 45 -column 2, line 46 -----	1-64
A	US 5 047 024 A (GLASSMAN JACOB A) 10 September 1991 (1991-09-10) figures 1-18 column 1, line 10 - line 12 column 1, line 38 - line 41 column 2, line 1 - line 8 column 2, line 58 -column 3, line 24 column 5, line 9 - line 68 column 6, line 29 - line 36 -----	1-64
A	US 2001/011169 A1 (BROAD GAVIN J ET AL) 2 August 2001 (2001-08-02) the whole document -----	1-64

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/10721

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 6310269	B1	30-10-2001	DE 3934153 A1 18-04-1991
			US 2002157222 A1 31-10-2002
			AP 270 A 21-06-1993
			AT 101333 T 15-02-1994
			AU 629700 B2 08-10-1992
			AU 6399390 A 18-04-1991
			BR 9005093 A 17-09-1991
			CA 2027339 A1 13-04-1991
			CS 9004906 A3 19-02-1992
			DE 69006565 D1 24-03-1994
			DE 69006565 T2 25-08-1994
			DK 422660 T3 28-03-1994
			EP 0422660 A1 17-04-1991
			ES 2050329 T3 16-05-1994
			GR 90100739 A ,B 20-03-1992
			HU 58991 A2 28-04-1992
			HU 73704 A2 30-09-1996
			IE 903641 A1 24-04-1991
			JP 3085968 B2 11-09-2000
			JP 3146058 A 21-06-1991
			NO 904394 A ,B, 15-04-1991
			NZ 235603 A 25-11-1992
			PT 95571 A ,B 14-08-1991
			SK 280197 B6 10-09-1999
			ZA 9008135 A 24-06-1992
			ZM 4690 A1 28-06-1991
US 5832576	A	10-11-1998	DE 4304505 A1 18-08-1994
			AT 183381 T 15-09-1999
			AU 673395 B2 07-11-1996
			AU 5487694 A 18-08-1994
			BR 9400569 A 23-08-1994
			CA 2114373 A1 16-08-1994
			DE 69420061 D1 23-09-1999
			DE 69420061 T2 06-04-2000
			EP 0611562 A1 24-08-1994
			ES 2134863 T3 16-10-1999
			GR 94100050 A ,B 31-10-1994
			IL 108428 A 30-10-1998
			JP 7047098 A 21-02-1995
			SG 46702 A1 20-02-1998
			TR 27791 A 29-08-1995
			US 5911712 A 15-06-1999
			US 5813102 A 29-09-1998
US 2798260	A	09-07-1957	NONE
US 3422496	A	21-01-1969	NL 6410706 A 15-03-1966
			AT 257035 B 25-09-1967
			CH 434563 A 30-04-1967
			DE 1491161 A1 04-06-1969
			DK 108142 C 18-09-1967
			FR 1449127 A 18-03-1966
			GB 1082770 A 13-09-1967
EP 0403636	B	27-12-1990	SE 311718 B 23-06-1969
			AT 401610 B 25-10-1996
			AT 1089 A 15-03-1996

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/10721

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0403636	B		AT 113196 T AU 619939 B2 AU 4823390 A BR 9004358 A CA 2024373 A1 CN 1044046 A ,B DE 69013581 D1 DE 69013581 T2 DK 403636 T3 WO 9007314 A1 EP 0403636 A1 ES 2062505 T3 GR 1000530 B IE 62366 B1 JP 2799241 B2 JP 3503733 T KR 157596 B1 NO 903652 A ,B, NZ 231978 A PT 92777 A ,B RU 2023776 C1 US 5165152 A ZA 9000035 A	15-11-1994 06-02-1992 01-08-1990 30-07-1991 04-07-1990 25-07-1990 01-12-1994 24-05-1995 12-12-1994 12-07-1990 27-12-1990 16-12-1994 25-08-1992 25-01-1995 17-09-1998 22-08-1991 01-02-1999 17-10-1990 29-01-1992 31-07-1990 30-11-1994 24-11-1992 28-12-1990
WO 0053141	A	14-09-2000	AU 3175900 A EP 1185227 A1 WO 0053141 A1	28-09-2000 13-03-2002 14-09-2000
US 5592725	A	14-01-1997	DE 4325220 A1 AT 164510 T DE 59405567 D1 WO 9503766 A2 EP 0639363 A2 JP 8504654 T	02-02-1995 15-04-1998 07-05-1998 09-02-1995 22-02-1995 21-05-1996
US 6283952	B1	04-09-2001	AU 5953794 A DE 69328129 D1 DE 69328129 T2 EP 0735848 A1 EP 0960611 A2 ES 2142931 T3 IL 108107 A MX 9400033 A1 WO 9415564 A1	15-08-1994 20-04-2000 12-10-2000 09-10-1996 01-12-1999 01-05-2000 05-12-1996 31-08-1994 21-07-1994
US 5047024	A	10-09-1991	US 5112348 A	12-05-1992
US 2001011169	A1	02-08-2001	US 6258075 B1 US 6206867 B1 US 2003191443 A1 AU 4032900 A BR 0009631 A CA 2368275 A1 CN 1345214 T CZ 20013591 A3 EG 22639 A EP 1171072 A1 HU 0200934 A2	10-07-2001 27-03-2001 09-10-2003 14-11-2000 15-01-2002 19-10-2000 17-04-2002 13-02-2002 31-05-2003 16-01-2002 29-07-2002

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/10721

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 2001011169 A1		TR 200102838 T2	21-03-2002
		TW 453870 B	11-09-2001
		WO 0061052 A1	19-10-2000
		US 2002133133 A1	19-09-2002
		US 2003153892 A1	14-08-2003
		US 2003158533 A1	21-08-2003
		US 2003153893 A1	14-08-2003
		US 6554814 B1	29-04-2003
		AT 238017 T	15-05-2003
		AU 748284 B2	30-05-2002
		AU 5325099 A	21-02-2000
		BR 9912452 A	02-10-2001
		CA 2336394 A1	10-02-2000
		CN 1310602 T	29-08-2001
		DE 69907207 D1	28-05-2003
		DE 69907207 T2	13-11-2003
		EP 1100424 A1	23-05-2001
		JP 2002521133 T	16-07-2002
		WO 0006070 A1	10-02-2000
		ZA 200107828 A	23-12-2002